
Career and Technical Education Certification

October 2014

Career and Technical Education (CTE) Certification Pathways

- There are 3 approved teacher preparation programs in New York State to obtain a CTE Certificate.
 - New York Institute of Technology
 - SUNY Oswego
 - Buffalo State College

- Individual Evaluation (Option A or B)
 - Option A – with associate's degree in the content area of the certificate - 2 years of experience in the area of the certificate
 - Option B – with High School diploma, must have 4 years of experience in the area of the certificate
 - National Board Certification

80 % of all CTE certificates are obtained through individual evaluation

Requirements for CTE Certification

➤ Option A

- Associate's degree in the area of certification
- 2.5 GPA
- 2 years work experience in the certificate area
- 40 days of student teaching
- Pedagogical courses – 9 credits
 - Human Development and Learning
 - Teaching Students with Disabilities and Special Health Care Needs
 - Curriculum, Instruction and Assessment
- Educating All Students (EAS) test
- Workshops – Child Abuse Identification; School Violence Intervention and Prevention; and DASA. Fingerprint clearance

Requirements for CTE Certification

➤ Option B

- 4 years work experience in the certificate area
- 40 days of student teaching
- Pedagogical courses – 12 credits
 - Human Development and Learning
 - Teaching Students with Disabilities and Special Health Care Needs
 - Curriculum, Instruction and Assessment
 - ELA or Communication Skills
- Educating All Students (EAS) test
- Workshops – Child Abuse Identification; School Violence Intervention and Prevention; and DASA. Fingerprint clearance

Transitional - A CTE Option

- Allows individual with the required occupational experience that is aligned with a specific career and technical education certification title to obtain career and technical education transitional A certification. The certification is valid for three 3 years while he/she completes the requirements for an initial CTE certificate.
- The applicant must have a job offer pending

Pedagogy requirement for the Initial

- The pedagogical coursework is widely available and can be completed through any NYS Institution with a Teacher Education Program or as distance learning courses at Empire State College.

Pedagogical courses – 9 or 12 credits (Depending on Education Level)

- Human Development and Learning
- Teaching Students with Disabilities and Special Health Care Needs
- Curriculum, Instruction and Assessment
- ELA or Communication Skills

Current CTE Certificate Titles

- There are 59 separate Active CTE certificate titles
 - List in Appendix of all CTE titles and the current number of valid certificates in each title.

National Board CTE Classification

National Board CTE Certificate Areas	SED Active Certificate Titles
<p>Agriculture and Environmental Sciences. Concentrations in this area include, for example, agriscience, animal science, agricultural business, environmental sciences, fisheries management, forestry, horticulture, and wildlife management.</p>	<p>Agricultural Production, Science & Business 7-12 Animal Science 7-12 Animal Production, Science & Business 7-12 Plant Science 7-12 Natural Resources & Ecology 7-12 Agricultural Engineering & Mechanics 7-12</p>
<p>Arts and Communications. Concentrations in this area include, for example, media arts, writing and related arts (e.g., journalism, translation, advertising, and public relations), and graphic arts.</p>	<p>Commercial Art 7-12 Professional Photography 7-12 Graphic Imaging (To include printing/lithography 7-12 Media Communications 7-12</p>
<p>Business, Marketing, Information Management and Entrepreneurship. Concentrations in this area include, for example, accounting and finance, information systems, administrative office technology, marketing, and entrepreneurship.</p>	<p>Computer Technology 7-12</p>
<p>Family and Consumer Sciences. Concentrations in this area include, for example, nutrition and wellness, family relations and human development, child and elder care, clothing and textiles industries, hospitality industries, housing decision making, and home living and maintenance.</p>	<p>Travel Services 7-12 Hospitality & Tourism 7-12 Food & Nutrition 7-12 Textile & Design Cluster 7-12 Textile Production and Fabrication (Clothing Trades) 7-12 Upholstering 7-12 Culinary Careers 7-12 Personal Trainer Assisting 7-12</p>

National Board CTE Classification

National Board CTE Certificate Areas	SED Active Certificate Titles
<p>Health Services. Concentrations in this area include, for example, nursing, psychiatry, rehabilitative therapy, hospital administration, and medical records.</p>	<p>Dental Assisting 7-12 Dental Laboratory Technology 7-12 Emergency Medical Services 7-12 Medical Assisting 7-12 Medical Laboratory Technology 7-12 Nurse's Assisting 7-12 Ophthalmic Dispensing 7-12 Optical Mechanics 7-12 Practical Nursing 7-12 Pharmacy Assisting 7-12 Physical Therapy Aid 7-12</p>
<p>Human Services. Concentrations in this area include, for example, preschool or day care, law and legal studies, law enforcement, public administration, child and family services, religion, and social services.</p>	<p>Cosmetology/Barbering 7-12 Human Services & Family Studies Cluster 7-12 Security Operations 7-12</p>

National Board CTE Classification

National Board CTE Certificate Areas	SED Active Certificate Titles
<p>Manufacturing and Engineering Technology. Concentrations in this area include, for example, carpentry, electronics, plumbing, masonry, mechanics and repair technology, and automotive maintenance.</p>	<p>Vehicle Mechanical Repair (including Heavy Equipment Repair) 7-12 Vehicle Body Repair & Painting 7-12 Avionics 7-12 Carpentry 7-12 Electrical 7-12 Heating, Ventilation, Air Conditioning & Refrigeration 7-12 Masonry 7-12 Plumbing 7-12 Power Plant Maintenance & Repair 7-12 Residential/Commercial Building Maintenance & Remodeling 7-12 Drafting 7-12 Computer Aided Drafting (CAD) 7-12 Welding 7-12 Motorcycle, Marine & Outdoor Power Equipment 7-12 Electrical/Electronic Equipment Occupations (Repair & Installation) 7-12 Electro-Mechanical Equipment Occupations (Repair & Installation) 7-12</p>

National Board CTE Classification

National Board CTE Certificate Areas	SED Active Certificate Titles
<p>Technology Education. Concentrations in this area include, for example, communication systems (e.g., transmitting, receiving, storing information), transportation systems (e.g., loading, moving, unloading, and storing items), manufacturing systems (e.g., locating and extracting material resources, producing industrial materials), and construction systems (e.g., preparing building sites, setting foundations, erecting structures, installing utilities).</p>	<p>Machine Tool Operation/Machine Shop 7-12 Mechanical Technology 7-12 Electrical-Electronic Technology 7-12 Airframe Maintenance & Repair 7-12 Ground Support Operations 7-12 Avionics Trades (Ground School Training) 7-12 Warehousing 7-12</p>
<p>Uncategorized</p>	<p>Dance – Classical Ballet 7-12 Dance – Modern 7-12 Dance Music - 7-12 Drama Coordinator - 7-12. Work-Based Learning Programs For Career Awareness and Development Extension</p>

SED CTE Titles, National Board Certification Areas and CTE Approved Programs

- National Board CTE categories do not necessarily address specific teacher certification as it pertains to acceptability in secondary CTE approved programs.
- The nature of program or course content has dramatically changed due to technologies and demands of business and industry.

Topics to Consider



- What industry standards can we use to ensure that the individual has the proper training to teach a CTE course.
- How to use 175 hours of professional development to ensure CTE's stay current with the field.
- Path for people teaching out of certification area with existing academic subject teaching titles.
- Create flexibility around the 40 day teaching requirement for the Initial certificate.
- How would the current tenure regulations affect/restrict potential changes? Would the tenure regulations need to be revised.

Topics to Consider – cont'd



- How do you recruit potential CTE teachers? Possible lack of information in the business world.
- Create new CTE areas
- Pathway for those teaching in proprietary schools approved by the Department to become CTE teachers
- Combination of experience and coursework in the certificate area.

Topics to Consider – cont'd



- NYSUT support is evident as described in their recent report, *Career and Technical Education 2014: “Unlocking New Futures for New York’s High School Graduates*
- Recognizing that to provide quality CTE programs by expanding access to more students will require a critical review of the teacher pipeline, credentialing and professional learning opportunities.
- Some Key Recommendations:
 - Develop a statewide recruitment and preparation plan
 - Provide professional development for guidance counselors and other school staff
 - Create a shared model of supports for CTE teachers and support staff for special populations in CTE programs
 - Create a teacher certification endorsement that recognizes and rewards teachers with business and industry experience.